Figure 1

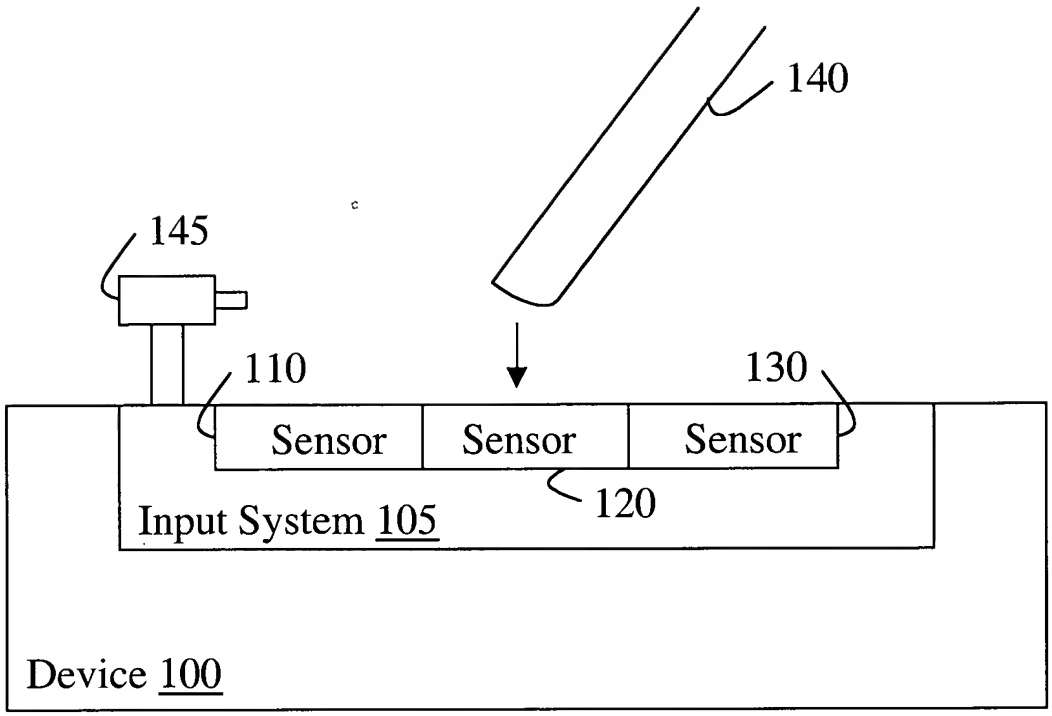

140
145
110
130
Sensor
Sensor
Sensor
120
Input System 105
Device 100

Figure 2

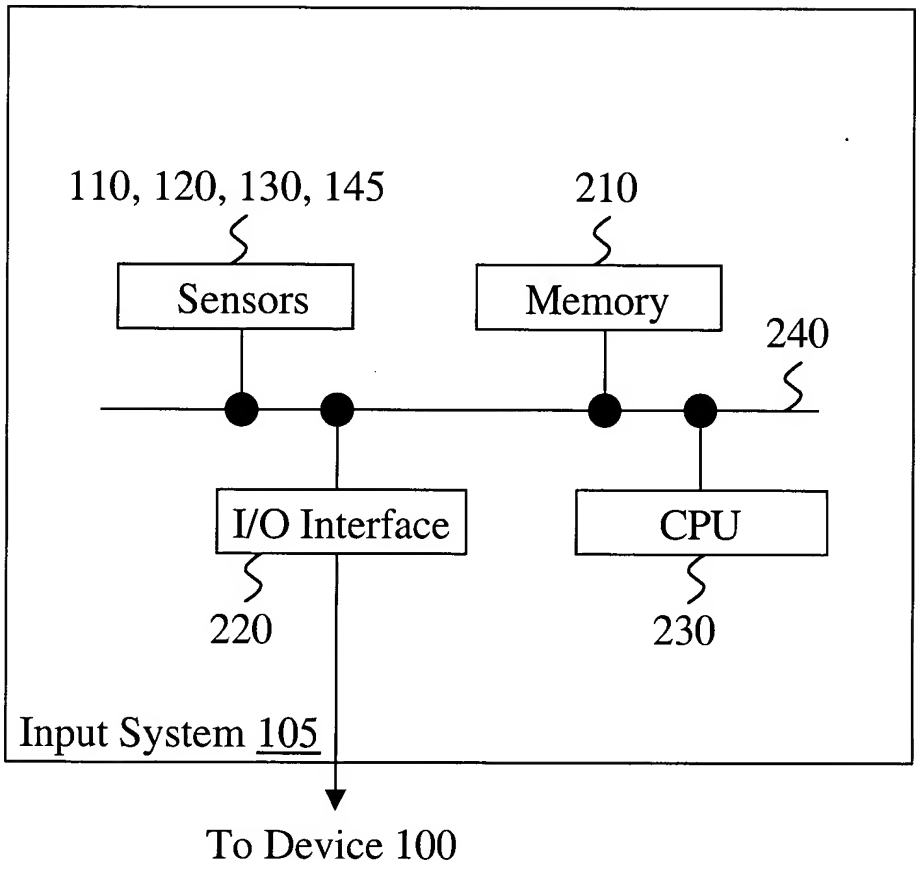

110, 120, 130, 145
210
Sensors
Memory
240
I/O Interface
CPU
220
230
Input System 105
To Device 100

Figure 3

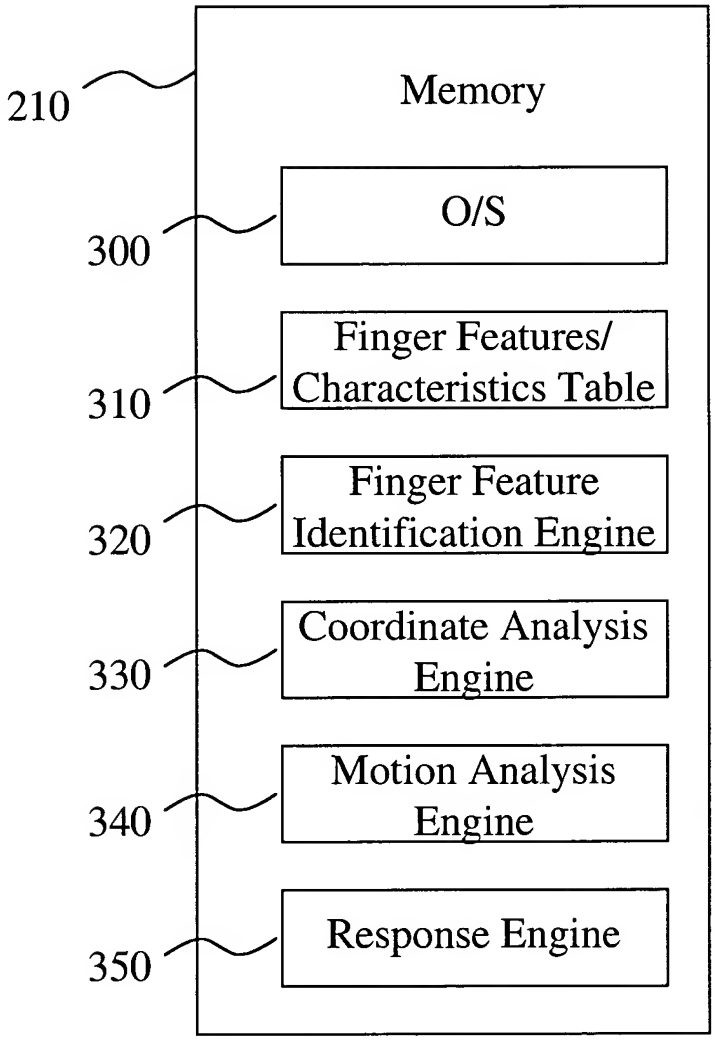

210
Memory
300
O/S
310
Finger Features/ Characteristics Table
320
Finger Feature Identification Engine
330
Coordinate Analysis Engine
340
Motion Analysis Engine
350
Response Engine

Figure 4A

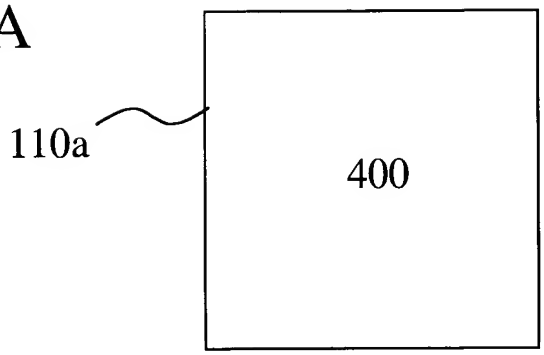


Figure 4B

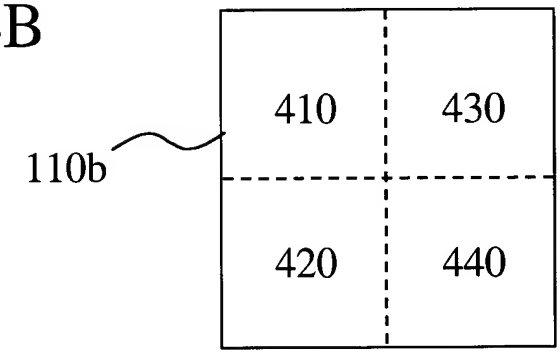


Figure 4C

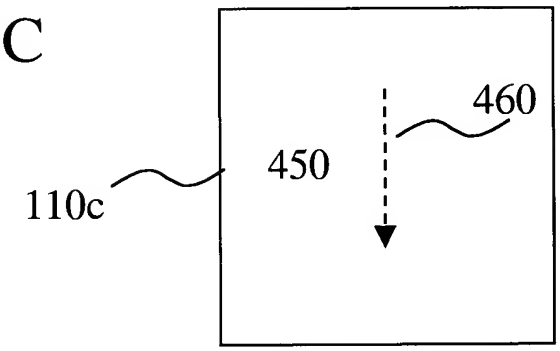
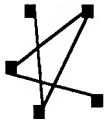
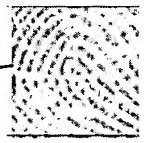
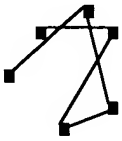
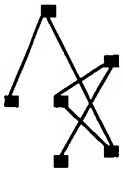


Figure 5

500 510a 510b 510c

Function	Fingerprint	Minutiae Points Map	Color
Function 1	511		Blue
Function 2	512 		Red
Function 3	513		Green

310a

Figure 6

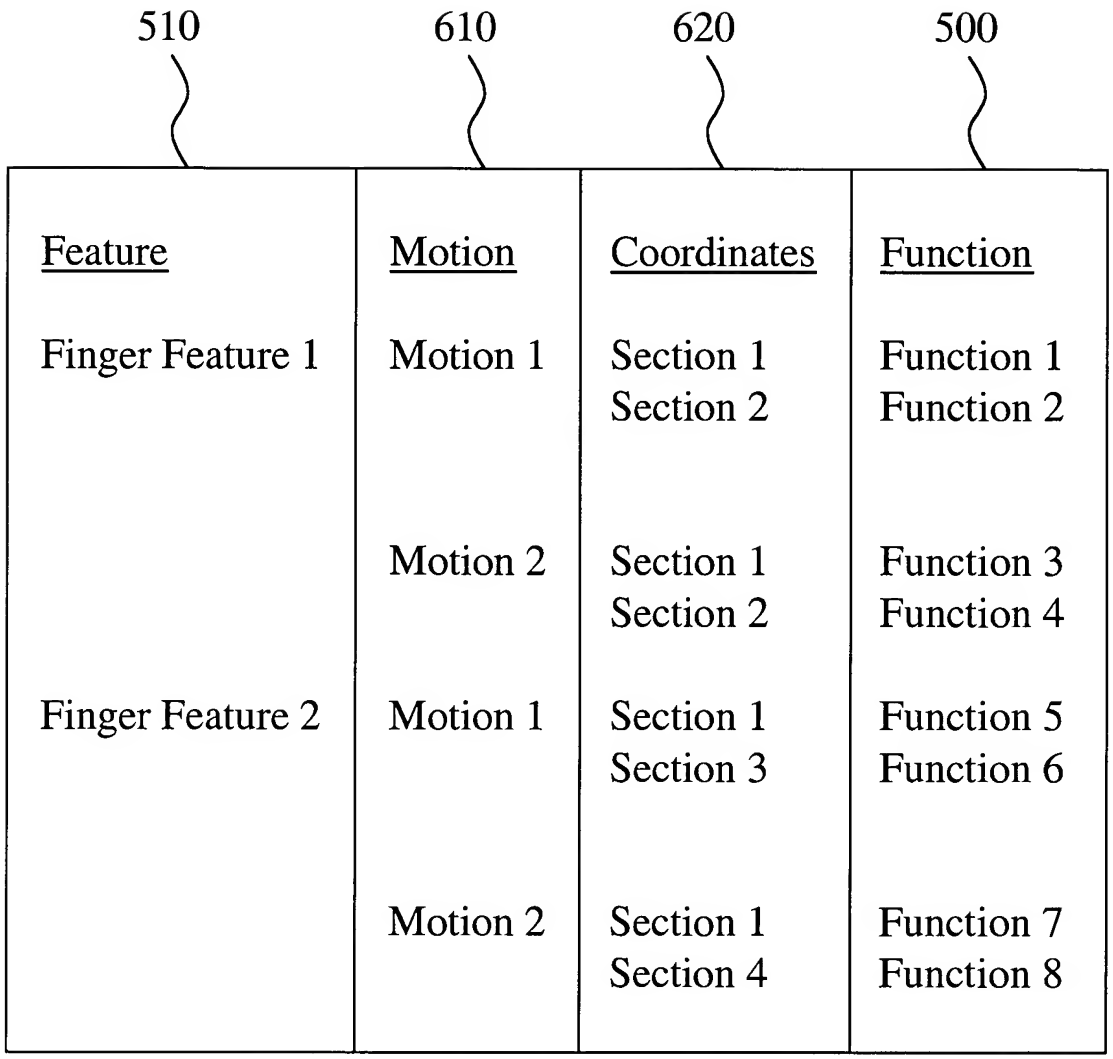
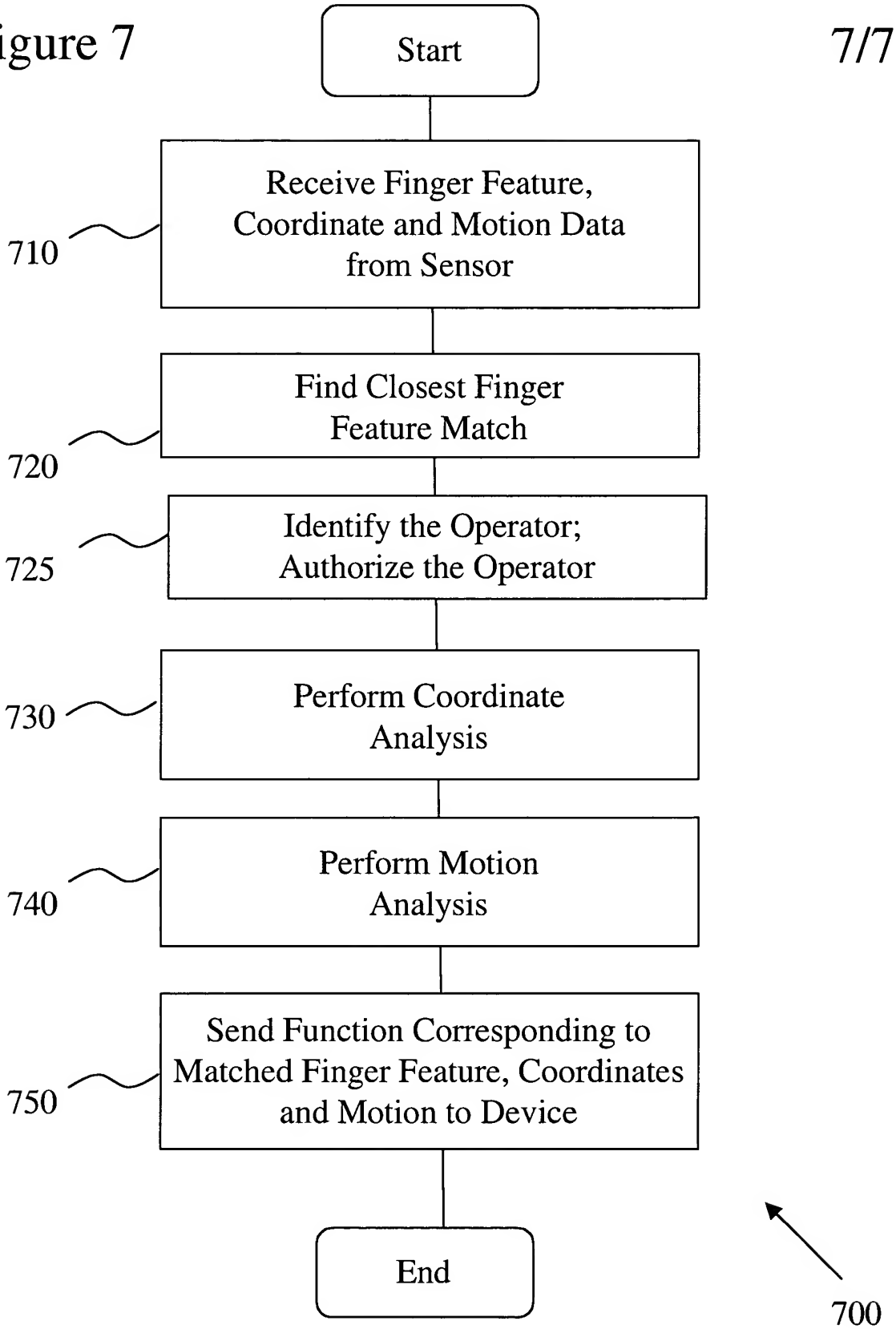

510
610
620
500
Feature
Motion
Coordinates
Function
Finger Feature 1
Motion 1
Section 1
Section 2
Function 1
Function 2
Motion 2
Section 1
Section 2
Function 3
Function 4
Finger Feature 2
Motion 1
Section 1
Section 3
Function 5
Function 6
Motion 2
Section 1
Section 4
Function 7
Function 8
310b

Figure 7


Start
Receive Finger Feature, Coordinate and Motion Data from Sensor
710
Find Closest Finger Feature Match
720
Identify the Operator; Authorize the Operator
725
Perform Coordinate Analysis
730
Perform Motion Analysis
740
Send Function Corresponding to Matched Finger Feature, Coordinates and Motion to Device
750
End
700